



STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 136043

TO: Vanessa L Ford
Location: REM/3B25/3C18
Art Unit: 1645
Wednesday, October 27, 2004

Case Serial Number: 10/023437

From: David Schreiber
Location: Biotech-Chem Library
Remsen E01A61
Phone: 272-2526

david.schreiber@uspto.gov

Search Notes

Johnston et AL.

Query Match 40.0%; Score 896; DB 4; Length 233;
Best Local Similarity 77.9%; Pred. No. 3.9e-86;
Matches 176; Conservative 19; Mismatches 31; Indels 0; Gaps 0;

```

Qy      1 MTSATYQVSSRRKYPQTFAEMLGQDAVVTVLKNALQFQVAHAYLFSGIRGTGKTTLARI 60
Db      1 MTLQPYQASSRRKYPQTFREILQGSSVVALKNALVFNRAAHAYLFSGIRGTGKTTLARI 60

Qy     61 FAKALNCKELTPEHEPCNQCCVCKEISSGTSLDVIEIDGASHRGIEDIRQINETVLFTPA 120
Db     61 LAKALNCVHLSDEGEPCNQCFCKEIASGSSLDVLIEIDGASHRGIEDIRQINETVLFTPV 120

Qy    121 KSQYKIYIIDEVHMLTKEAFNSLLKTLEPPSHVKFFLATTENYKIPSTILSRCKQMHK 180
Db    121 KAKFKIYIIDEVHMLTKEAFNALLKTLEPPQHVKKFFATTEIHKIPGTLILSRCKQMHK 180

Qy    181 RIPETMIVDKLASISQAGGIETREALLPIARAAGQSLRDAESLYD 226
Db    181 RIPEKTILEKLSLMAQDDHIEASQALAPIARAAGQSLRDAESLYD -226

```

SEQ ID NO: 13

```
Query Match      58.8%; Score 281.5; DB 4; Length 102;  
Best Local Similarity 59.4%; Pred. No. 2.4e-26;  
Matches    60; Conservative   18; Mismatches    22; Indels     1; Gaps     1;  
  
QY      1 MTQPYYVTREDIILLAKSSALELSEEFIQEYESLLNEVIKTMMAASIAMDVTDV-VIEVGLS 59  
          |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||  
Db       2 MEQPHLDREELLAKASALQLSEELIQEYQTSLSAVTSMKEALAIEDDADSCESLFM 61  
          |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||  
  
QY      60 HVISPEDLREDIVASSFSREEFLTNVPESLGGLVKVPTVIK 100  
          |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||  
Db       62 HVVNVEDLRDSVTSDFNREEFLRNVPESLGGLVKVPVAVIK 102  
          |||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||::|||
```

SEQ ID NO: 7

```

Query Match      48.4%; Score 369.5; DB 4; Length 271;
Best Local Similarity 56.2%; Pred. No. 1.2e-37;
Matches    81; Conservative   21; Mismatches    33; Indels     9; Gaps      3;

Qy       3 IRTQKYAEALLPVTTAINSVAPITFLHDLTVFYRDVLNLNKDQGNSPLSAIAMHYSSACL 62
          | : ||| :|||:::|||||:||||:|::||| || : || : ||
Db       89 LQRDYATALGIVTDFLNSGVAVPTFLHDLTLFYRNLLLT----NSTTSKFSQYKTEQL 144

Qy       63 LEIIDFLGEAAKHLOOTIFEKTFLETVIIHLIRICORPSLETFLFSOLKTSTFPDTRNVNPQ 122
          |||:|||||:|||||:|||||:|||||:|||||:|||||:|::|::|:|::|:|
Db       145 LEIIDFLGESAKHLQNTIFEQTPLETVIIHIIRIYQRPVLSSELISSIKSRQFEGLRNIKE 204

Qy       123 ---QQEPSKPSIQPEKHYQDSFL 143
          :|:|:| |:|:|:|
Db       205 PTLTQQOVSAP--OPPTYKEOSFL 226

```